US008301464B1

(54) **METHOD AND SYSTEM FOR PRODUCING STATISTICAL ANALYSIS OF MEDICAL CARE INFORMATION**

(75) Inventors: **Douglas G. Cave**, Foster City, CA (US); **Yuri Alexandrian**, San Ramon, CA (US); **John T. Calvin**, Mountain View, CA (US); **Jenine A. Lara**, San Francisco, CA (US)

(73) Assignee: **Cave Consulting Group, Inc.**, San Mateo, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 371 days.

(21) Appl. No.: **12/473,147**

(22) Filed: **May 27, 2009**

Related U.S. Application Data

(60) Provisional application No. 61/082,080, filed on Jul. 18, 2008.

(51) **Int. Cl.**
G06Q 50/00 (2012.01)
(52) **U.S. Cl.** **705/2**
(58) **Field of Classification Search** 705/2; 364/401
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,489,387 A	12/1984	Lamb et al.
4,491,725 A	1/1985	Pritchard
4,667,292 A	5/1987	Mohlenbrock et al.
4,858,121 A	8/1989	Barber et al.
4,878,175 A	10/1989	Norden-Paul et al.
4,937,743 A	6/1990	Rassman et al.
4,987,538 A	1/1991	Johnson et al.
5,001,630 A	3/1991	Wiltfong
5,018,067 A	5/1991	Mohlenbrock et al.
5,065,315 A	11/1991	Garcia
5,070,452 A	12/1991	Doyle, Jr. et al.
5,072,383 A	12/1991	Brimm et al.
5,099,424 A	3/1992	Schneiderman
5,225,976 A	7/1993	Tawil
5,235,702 A	8/1993	Miller
5,253,164 A	10/1993	Holloway et al.
5,301,105 A	4/1994	Cummings, Jr.
5,307,262 A	4/1994	Ertel
5,319,543 A	6/1994	Wilhelm

(Continued)

OTHER PUBLICATIONS

S. Anderson et al., "The Gatekeeper Effect on Managing Acute Medical Conditions," Medical Interface, pp. 122-129, Sep. 1996.

(Continued)

Primary Examiner — John Pauls
(74) *Attorney, Agent, or Firm* — Bruce E. Hayden

(57) **ABSTRACT**

A method and system for producing statistical analysis of medical care information comprises: aggregating medical care providers to a peer group level; aggregating medical care information at the peer group level and at the medical care provider level; computing a statistical analysis, such as performing Pearson's correlation analysis; and generating peer group level and medical care provider level results utilizing the computed statistical analysis. Also, a method for producing statistical analysis of medical care information for a medical care provider efficiency measurement comprises: applying minimum unit of analysis criteria for medical care providers to be used in statistical analysis; calculating an overall weighted average medical care information measure for each medical care provider; calculating a medical condition-specific medical care information measure for each medical care provider; removing outlier medical care providers from statistical analysis at medical care information level; calculating a statistical analysis to medical care provider efficiency measurement at each medical care information level using a statistical calculation; and selecting statistically related medical care information to identify medical care providers meeting a desired practice pattern.

21 Claims, 9 Drawing Sheets

Skin Biopsy Correlation
Dermatology